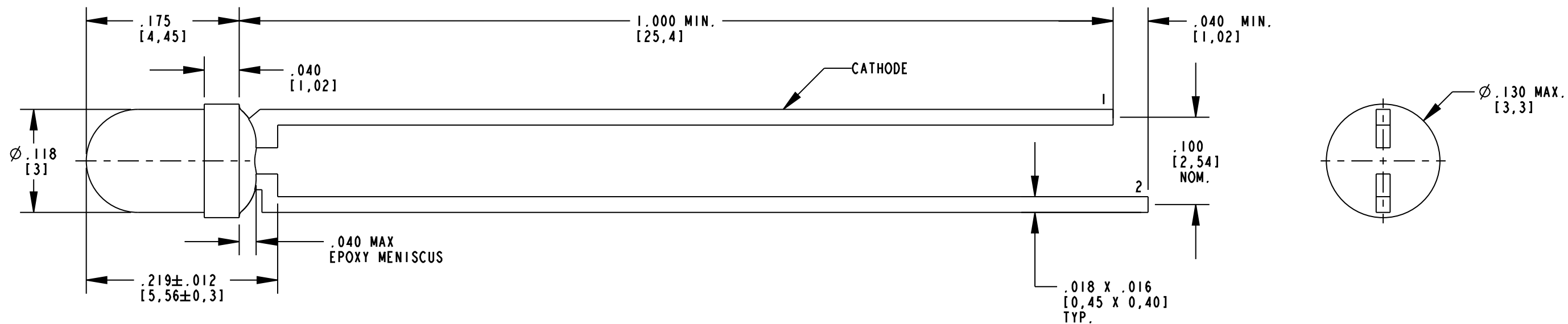


| DIALIGHT P/N | LED COLOR | LENS COLOR      |
|--------------|-----------|-----------------|
| 521-9215F    | RED       | TINTED DIFFUSED |
| 521-9322F    | YELLOW    | TINTED DIFFUSED |
| 521-9323F    | GREEN     | TINTED DIFFUSED |

**RoHS COMPLIANT 521-9XXXF**

Part Numbers with the "F" suffix ending are RoHS Compliant.  
 Example: 521-9215F  
 Packaging is marked with "RoHS Compliant" label or equivalent markings. Parts can be wave soldered, dip soldered or hand soldered using typical lead-free soldering process with max 260°C temp. for 5 sec.

| REV | ECN NO | REVISIONS   | DRN | CKD | APP | DATE    |
|-----|--------|-------------|-----|-----|-----|---------|
| A   |        | NEW RELEASE | AJF | KLJ | NO  | 6-16-10 |



| OPERATING CHARACTERISTICS AT 25°C AMBIENT |           |      |      |      |        |                      |
|---|-----------|------|------|------|--------|----------------------|
| LED CHARACTERISTICS                       | LED COLOR | MIN. | TYP. | MAX. | UNITS  | TEST CONDITIONS      |
| LUMINOUS INTENSITY                        | RED       | 8.7  | 29.0 |      | mcd    | V <sub>f</sub> = 5 V |
|   | GREEN     | 5.6  | 19.0 |      |        |                      |
|   | YELLOW    | 3.7  | 12.6 |      |        |                      |
| PEAK WAVELENGTH                           | RED       |      | 635  |      | nm     |                      |
|   | GREEN     |      | 565  |      |        |                      |
|   | YELLOW    |      | 585  |      |        |                      |
| DOMINANT WAVELENGTH                       | RED       | 615  | 625  | 632  | nm     |                      |
|   | GREEN     | 564  | 565  | 573  |        |                      |
|   | YELLOW    | 584  | 590  | 595  |        |                      |
| FORWARD CURRENT                           | RED       |      | 10.0 | 20.0 | V      | V <sub>f</sub> = 5 V |
|   | GREEN     |      | 10.0 | 20.0 |        |                      |
|   | YELLOW    |      | 10.0 | 20.0 |        |                      |
| REVERSE CURRENT                           | ALL       |      |      | 100  | μA     | V <sub>r</sub> = 5 V |
| VIEWING ANGLE                             | ALL       |      | 60   |      | DEGREE |                      |

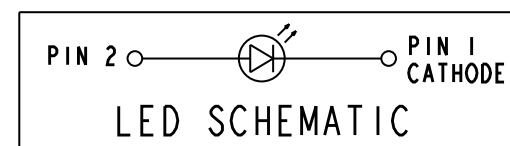
**NOTES:**

- PIN NUMBERS ARE FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
- LEAD SPACING MEASURED NEAR EPOXY PACKAGE.
- DIALIGHT PART NUMBERS: 521-9215F, 521-9322F & 521-9323F.
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING AND STORAGE IN ACCORDANCE WITH IPC-A-610.

| ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT                        | LED COLOR   |       |        | UNITS |
|---|-------------|-------|--------|-------|
|   | RED         | GREEN | YELLOW |       |
| CONTINUOUS FORWARD VOLTAGE                                      | 7.5         |       |        | V     |
| LINEAR DERATING FROM 50°C                                       | 0.086       |       |        | V/°C  |
| REVERSE VOLTAGE   | 5           |       |        | V     |
| LEAD SOLDERING TEMPERATURE (.063" [1.6mm] FROM BODY) FOR 5 SEC. | 260         |       |        | °C    |
| OPERATING TEMPERATURE   | -40 TO +85  |       |        | °C    |
| STORAGE TEMPERATURE   | -55 TO +100 |       |        | °C    |



**ATTENTION:**  
OBSERVE PRECAUTIONS FOR  
HANDLING ELECTROSTATIC  
SENSITIVE DEVICES



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|  |  |     |
|--|--|-----|
| SCALE: 8.000   | DRAWING NUMBER                                     | REV |
| ALL DIM'S IN: INCHES (MM)  | C-17849  | A   |
| TOLERANCES:<br>UNLESS OTHERWISE SPECIFIED                          | TITLE Ø3mm LED INTEGRAL RESISTOR 5V                |     |
| FRACTIONS: ±1/64<br>DECIMALS (.XX): ±.02<br>DECIMALS (.XXX): ±.010 | MATERIAL   |     |
| ANGLES: ±1°  | -  |     |
| FINISH:  | -  |     |
| FSCM 83330   | Dialight 1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 |     |
| SHEET 1 OF 1   | FAMILY TABLE:                                      |     |